antibodies

Datasheet for ABIN2483301 anti-CACNA1G antibody (AA 2052-2172) (Biotin)





Overview

Quantity:	100 µg
Target:	CACNA1G
Binding Specificity:	AA 2052-2172
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CACNA1G antibody is conjugated to Biotin
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

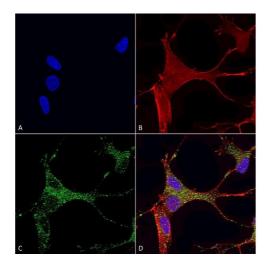
Immunogen:	Fusion protein amino acids 2052-2172 (cytoplasmic C-terminus) of mouse Cav3.1
Clone:	S178A-9
lsotype:	lgG1
Specificity:	Detects ~<200 kDa. Does not cross-react with Cav3.2.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified
Target Details	
Target:	CACNA1G

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Target Details	
Alternative Name:	Cav3.1 (CACNA1G Products)
Background:	Calcium channel CaV3.1 (a1G) is a low-voltage-activated T-type calcium channel. Such T-type channels are expressed throughout the body. In the heart, they may be involved in pacemaker current. In neurons, these channels may play a secondary pacemaker role (1). With the ubiquitous expression, it is not surprising that alterations in channel function have been implicated in disease. Drugs that act to block T-type calcium channels are used as anti-hypertensives, antiepileptic's, and blocking of T-type calcium channels may be involved in the action of some anesthetics and antipsychotics as well (1). Much remains to be determined about the precise cellular localization, in vivo physiological roles, roles in disease states and possible routes to modulate their structure/function to ameliorate effects of disease.
Gene ID:	12291
NCBI Accession:	NP_001106284
UniProt: Application Details	Q9WUT2
Application Notes:	 WB (1:1000) ICC/IF (1:100) optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN2483301 was sufficient for detection of Cav3.1 in 20 μg of rat brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions: Handling	For Research Use only
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

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Images

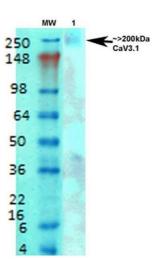


Immunocytochemistry

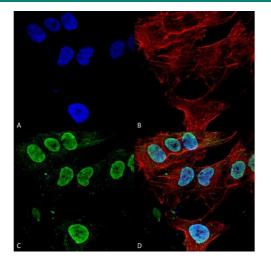
Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav3.1 Monoclonal Antibody, Clone S178A-9 (ABIN2483301). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Cav3.1 Monoclonal Antibody (ABIN2483301) at 1:50 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Cav3.1 Antibody (D) Composite.

Western Blotting

Image 2. Western Blot analysis of Rat brain membrane lysate showing detection of Cav3.1 Calcium Channel protein using Mouse Anti-Cav3.1 Calcium Channel Monoclonal Antibody, Clone S178A-9 . Primary Antibody: Mouse Anti-Cav3.1 Calcium Channel Monoclonal Antibody at 1:1000.



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Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav3.1 Monoclonal Antibody, Clone S178A-9 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Cav3.1 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cell Membrane, Membrane, Cytoplasm, Nucleoplasm. Magnification: 60X.

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